

SEQUENCE LISTING

<110> ENDOCUBE SAS
CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE - CNRS
UNIVERSITY OF OSLO
GIRARD, Jean-Philippe
AGUILAR, Luc
ERARD, Monique
HARALDSEN, Guttorm
BAEKKEVOLD, Espen
VAEGER, Marjan
BRANDTZAEG, Per

<120> NF-HEV COMPOSITIONS AND METHODS OF USE

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<151> 2002-12-19

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<212> PRT

<213> Canis familiaris

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tttagacaac	agcaatttct	actacatttt	tataagctta	aaacttacat	gttttaaaac	10740
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<211> 38

<212> DNA

<213> Artificial Sequence

<220>

<223> primer

<400> 9

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<210> 10

<211> 38

<212> DNA

<213> Artificial Sequence

<220>

<223> primer

<400> 10

gggccagtt tcagagagct taaacaagat attttcag 38

<210> 11

<211> 16

<212> PRT

<213> Homo sapiens

<400> 11

Met	Lys	Pro	Lys	Met	Lys	Tyr	Ser	Thr	Asn	Lys	Ile	Ser	Thr	Ala	Cys
1				5					10					15	

<210> 12

<211> 16

<212> PRT

<213> Homo sapiens

<400> 12

Cys	Tyr	Phe	Arg	Arg	Glu	Thr	Thr	Lys	Arg	Pro	Ser	Leu	Lys	Thr	Gly
1				5				10						15	

<210> 13

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> primer

<400> 13

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<210> 14

<211> 20

<212> DNA
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 <210> 15
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 <400> 15
 accacagtcc atgcatcac 20

 <210> 16
 <211> 20
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 <220>
 <223> primer

 <400> 16
 tccaccaccc tgttgctgta 20

 <210> 17
 <211> 77
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 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52
 <223> n = A,T,C or G

 <223> synthetic oligonucleotide

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 ttcagtgcaa ctgcagc 77

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 <211> 25
 <212> DNA
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 <220>
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 <400> 18
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 <210> 19
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<212> DNA
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<220>
<223> primer

<400> 19
caggtcagtt cagcggatcc tgtcg 25

<210> 20
<211> 29
<212> DNA
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<220>
<223> primer

<400> 20
ggatcctaatac gactcact atagggaga 29

<210> 21
<211> 18
<212> DNA
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<220>
<223> primer

<400> 21
aaatgaatca ggtgacgg 18

<210> 22
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> primer

<400> 22
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<210> 23
<211> 18
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<220>
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<400> 23
agtgattgag agtggacc 18

<210> 24
<211> 18
<212> DNA
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<220>
<223> primer

<400> 24
attctcagcc ctcttcaa 18

<210> 25
<211> 20
<212> DNA
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<220>
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<400> 25
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<210> 26
<211> 21
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<220>
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<400> 26
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<210> 27
<211> 16
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<220>
<223> primer

<400> 27
gctctgttcc caggac 16

<210> 28
<211> 20
<212> DNA
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<220>
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<400> 28
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<210> 29
<211> 18
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<220>
<223> primer

<400> 29
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<210> 30
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<220>

<223> primer

<400> 30

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16

<210> 31

<211> 16

<212> DNA

<213> Artificial Sequence

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<223> primer

<400> 31

ggtcagttgg atttgc

16

<210> 32

<211> 16

<212> DNA

<213> Artificial Sequence

<220>

<223> primer

<400> 32

tgctgctcct gctgac

16

<210> 33

<211> 16

<212> DNA

<213> Artificial Sequence

<220>

<223> primer

<400> 33

gctaccactt ccacct

16

<210> 34

<211> 18

<212> DNA

<213> Artificial Sequence

<220>

<223> primer

<400> 34

ccagatgcaa tcaatgcc

18

<210> 35

<211> 17

<212> DNA

<213> Artificial Sequence

<220>

<223> primer

<400> 35

ctgaacccac ttctgct

17

<210> 36

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> primer

<400> 36

gaataactgaa aaatgaagcc

20

<210> 37

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> primer

<400> 37

gactcacagg tttccatcaa c

21

<210> 38

<211> 107

<212> PRT

<213> Homo sapiens

<400> 38

Met	Ala	Arg	Ala	Ala	Leu	Ser	Ala	Ala	Pro	Ser	Asn	Pro	Arg	Leu	Leu
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Arg	Val	Ala	Leu	Leu	Leu	Leu	Leu	Val	Ala	Ala	Gly	Arg	Arg	Ala	
		20					25					30			
Ala	Gly	Ala	Ser	Val	Ala	Thr	Glu	Leu	Arg	Cys	Gln	Cys	Leu	Gln	Thr
		35				40					45				
Leu	Gln	Gly	Ile	His	Pro	Lys	Asn	Ile	Gln	Ser	Val	Asn	Val	Lys	Ser
	50					55				60					
Pro	Gly	Pro	His	Cys	Ala	Gln	Thr	Glu	Val	Ile	Ala	Thr	Leu	Lys	Asn
65				70					75					80	
Gly	Arg	Lys	Ala	Cys	Leu	Asn	Pro	Ala	Ser	Pro	Ile	Val	Lys	Lys	Ile
			85					90					95		
Ile	Glu	Lys	Met	Leu	Asn	Ser	Asp	Lys	Ser	Asn					
			100					105							

<210> 39

<211> 1103

<212> DNA

<213> Homo sapiens

<400> 39

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gctcctgcga	gtggcactgc	tgtctctgct	cctggtagcc	gctggccggc	gcgcagcagg	180
agcgtccctg	gccactgaac	tgcgctgcca	gtgcttgag	accctgcagg	gaattcaccc	240
caagaacatc	caaagtgtga	acgtgaagtc	ccccggaccc	cactgcgccc	aaaccgaagt	300
catagccaca	ctcaagaatg	ggcggaaagc	ttgcctcaat	cctgcatccc	ccatagttaa	360
gaaaatcatc	gaaaagatgc	tgaacagtga	caaatccaac	tgaccagaag	ggaggaggaa	420
gctcactggg	ggctgttcct	gaaggaggcc	ctgcccttat	aggaacagaa	gaggaaagag	480
agacacagct	gcagaggcca	cctggattgt	gcctaattgt	tttgagcatc	gcttaggaga	540

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agtcttctat ttatttattt attcattagt tttgaagatt ctatgttaat attttaggtg 600
taaaataaatt aagggtatga ttaactctac ctgcacactg tcctattata ttcatttcttt 660
ttgaaatgtc aaccccaagt tagttcaatc tggattcata tttaatttga aggtagaatg 720
ttttcaaagt ttctccagtc attatgttaa tttttctgag gagcctgcaa catgccagcc 780
actgtgatag aggctggcgg atccaagcaa atggccaatg agatcattgt gaaggcaggg 840
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aatgatttca cagtgtgtgg tcaacatttc tcatgttgaa actttaagaa ctaaaatgtt 960
ctaaatatcc cttggacatt ttatgtcttt cttgtaaggc atactgcctt gtttaatggt 1020
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atataaaaaat aaagcactta tag                                     1103

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<210> 40

<211> 114

<212> PRT

<213> Homo sapiens

<400> 40

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Met Ser Leu Pro Ser Ser Arg Ala Ala Arg Val Pro Gly Pro Ser Gly
1          5          10          15
Ser Leu Cys Ala Leu Leu Ala Leu Leu Leu Leu Thr Pro Pro Gly
          20          25          30
Pro Leu Ala Ser Ala Gly Pro Val Ser Ala Val Leu Thr Glu Leu Arg
          35          40          45
Cys Thr Cys Leu Arg Val Thr Leu Arg Val Asn Pro Lys Thr Ile Gly
          50          55          60
Lys Leu Gln Val Phe Pro Ala Gly Pro Gln Cys Ser Lys Val Glu Val
65          70          75          80
Val Ala Ser Leu Lys Asn Gly Lys Gln Val Cys Leu Asp Pro Glu Ala
          85          90          95
Pro Phe Leu Lys Lys Val Ile Gln Lys Ile Leu Asp Ser Gly Asn Lys
          100          105          110
Lys Asn

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<210> 41

<211> 1547

<212> DNA

<213> Homo sapiens

<400> 41

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gcgctgctcg cgctgctgct cctgctgacg ccgccggggc ccctcgccag cgctggtcct 180
gtctctgctg tgctgacaga gctgcgttgc acttgtttac gcgttacgct gagagtaaag 240
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gtggtagcct ccctgaagaa cgggaagcaa gtttgtctgg acccggaagc cccttttcta 360
aagaaagtca tccagaaaat tttggacagt ggaaacaaga aaaactgagt aacaaaaaag 420
accatgcatc ataaaattgc ccagttctca gcggagcagt tttctggaga tccctggacc 480
cagtaagaat aagaaggaag ggttggtttt tttccatttt ctacatggat tccctacttt 540
gaagagtgtg ggggaaagcc tacgcttctc cctgaagttt acagctcagc taatgaagta 600
ctaatatagt atttccacta tttactgtta ttttacctga taagttattg aacccttttg 660
caattgacca tattgtgagc aaagaatcac tgggtattag tctttcaatg aatattgaat 720
tgaagataac tattgtattt ctatcataca ttccttaaag tcttaccgaa aaggctgtgg 780
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catgatttac tcattaaact ttgattttgt atgctatatt ttcactatag gatgactata 1140
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tgattgctaa tttacataga aatgtattct cttgggtttt taaataaaaag caaaattaac 1260
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aaattgcact tttatttttt cctgtgtgtc atgtttggtt ttggtacttg tattgtcatt 1500
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<210> 42

<211> 99

<212> PRT

<213> Homo sapiens

<400> 42

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Met Thr Ser Lys Leu Ala Val Ala Leu Leu Ala Ala Phe Leu Ile Ser
 1           5           10           15
Ala Ala Leu Cys Glu Gly Ala Val Leu Pro Arg Ser Ala Lys Glu Leu
          20           25           30
Arg Cys Gln Cys Ile Lys Thr Tyr Ser Lys Pro Phe His Pro Lys Phe
          35           40           45
Ile Lys Glu Leu Arg Val Ile Glu Ser Gly Pro His Cys Ala Asn Thr
 50           55           60
Glu Ile Ile Val Lys Leu Ser Asp Gly Arg Glu Leu Cys Leu Asp Pro
65           70           75           80
Lys Glu Asn Trp Val Gln Arg Val Val Glu Lys Phe Leu Lys Arg Ala
          85           90           95
Glu Asn Ser

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<210> 43

<211> 1639

<212> DNA

<213> Homo sapiens

<400> 43

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ccggaaggaa ccatctcact gtgtgtaaac atgacttcca agctggccgt ggctctcttg 120
gcagccttcc tgatttctgc agctctgtgt gaagggtcag ttttgccaag gagtgtctaa 180
gaacttagat gtcagtgcac aaagacatac tccaaacctt tccaccccaa atttatcaaa 240
gaactgagag tgattgagag tggaccacac tgcgccaaca cagaaattat tgtaaagctt 300
tctgatggaa gagagctctg tctggacccc aaggaaaact ggggtgcagag ggttgtggag 360
aagtttttga agagggctga gaattcataa aaaaattcat tctctgtggt atccaagaat 420
cagtgaagat gccagtgaaa cttcaagcaa atctacttca acacttcatg tattgtgttg 480
gtctgttgta gggttgccag atgcaatata agattcctgg ttaaatttga atttcagtaa 540
acaatgaata gtttttcatt gtaccatgaa atatccagaa catacttata tgtaaagtat 600
tatttatttg aatctacaaa aaacaacaaa taatttttga atataaggat tttcctagat 660
attgcacggg agaataataca aatagcaaaa ttgggccaag ggccaagaga atatccgaac 720
tttaatttca ggaattgaat gggtttgcta gaatgtgata tttgaagcat cacataaaaa 780
tgatgggaca ataaattttg ccataaagtc aaatttagct ggaaatcctg gatttttttc 840
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cttggtttct cttttatttc taagtggaaa aagtattagc caccatctta cctcacagt 960
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aagaatttgg aaaaatagaa gatgaatcat tgattgaata gttataaaga tgttatagta 1140
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tgcattttta aatacaaggc tttatatatt taactttaag atgtttttat gtgctctcca 1560

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<210> 44
<211> 99
<212> PRT
<213> Homo sapiens

<400> 44
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Phe Ile Pro Gln Gly Leu Ala Gln Pro Asp Ala Ile Asn Ala Pro Val
20 25 30
Thr Cys Cys Tyr Asn Phe Thr Asn Arg Lys Ile Ser Val Gln Arg Leu
35 40 45
Ala Ser Tyr Arg Arg Ile Thr Ser Ser Lys Cys Pro Lys Glu Ala Val
50 55 60
Ile Phe Lys Thr Ile Val Ala Lys Glu Ile Cys Ala Asp Pro Lys Gln
65 70 75 80
Lys Trp Val Gln Asp Ser Met Asp His Leu Asp Lys Gln Thr Gln Thr
85 90 95
Pro Lys Thr

<210> 45
<211> 757
<212> DNA
<213> Homo sapiens

<400> 45
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tcgcctccag catgaaagtc tctgccgccc ttctgtgcct gctgctcata gcagccacct 120
tcattcccca agggctcgct cagccagatg caatcaatgc ccagtcacc tgcgtgtata 180
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acccaagca gaagtgggtt caggattcca tggaccacct ggacaagcaa acccaaactc 360
cgaagacttg aacactcact ccacaaccca agaattctgca gctaacttat tttcccctag 420
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tggtactagt gttttttaga tacagagact tggggaaatt gcttttctc ttgaaccaca 600
gttctacccc tgggtgttt tgagggtctt tgcaagaatc attaatacaa agaatttttt 660
ttaacattcc aatgcattgc taaaatatta ttgtggaaat gaatattttg taactattac 720
accaaataaa tatatttttg tacaaaaaaa aaaaaaa 757

<210> 46
<211> 107
<212> PRT
<213> Homo sapiens

<400> 46
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1 5 10 15
Arg Val Ala Leu Leu Leu Leu Leu Leu Val Ala Ala Ser Arg Arg Ala
20 25 30
Ala Gly Ala Pro Leu Ala Thr Glu Leu Arg Cys Gln Cys Leu Gln Thr
35 40 45
Leu Gln Gly Ile His Leu Lys Asn Ile Gln Ser Val Lys Val Lys Ser
50 55 60
Pro Gly Pro His Cys Ala Gln Thr Glu Val Ile Ala Thr Leu Lys Asn
65 70 75 80

Gly Gln Lys Ala Cys Leu Asn Pro Ala Ser Pro Met Val Lys Lys Ile
 85 90 95
 Ile Glu Lys Met Leu Lys Asn Gly Lys Ser Asn
 100 105

<210> 47
 <211> 1110
 <212> DNA
 <213> Homo sapiens

<400> 47
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 tgcgggtggc gctgctgctc ctgctcctgg tggccgccag ccggcgcgca gcaggagcgc 180
 ccctggccac tgaactgcgc tgccagtgtc tgcagaccct gcagggaatt cacctcaaga 240
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 ccacactcaa gaatgggcag aaagcttgct tcaaccccg cgcgccatg gttaagaaaa 360
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<210> 48
 <211> 532
 <212> PRT
 <213> Homo sapiens

<400> 48
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 20 25 30
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 35 40 45
 Ser Thr Ser Cys Asp Gln Pro Lys Leu Leu Gly Ile Glu Thr Pro Leu
 50 55 60
 Pro Lys Lys Glu Leu Leu Leu Pro Gly Asn Asn Arg Lys Val Tyr Glu
 65 70 75 80
 Leu Ser Asn Val Gln Glu Asp Ser Gln Pro Met Cys Tyr Ser Asn Cys
 85 90 95
 Pro Asp Gly Gln Ser Thr Ala Lys Thr Phe Leu Thr Val Tyr Trp Thr
 100 105 110
 Pro Glu Arg Val Glu Leu Ala Pro Leu Pro Ser Trp Gln Pro Val Gly
 115 120 125
 Lys Asn Leu Thr Leu Arg Cys Gln Val Glu Gly Gly Ala Pro Arg Ala
 130 135 140
 Asn Leu Thr Val Val Leu Leu Arg Gly Glu Lys Glu Leu Lys Arg Glu
 145 150 155 160
 Pro Ala Val Gly Glu Pro Ala Glu Val Thr Thr Thr Val Leu Val Arg
 165 170 175
 Arg Asp His His Gly Ala Asn Phe Ser Cys Arg Thr Glu Leu Asp Leu

Arg	Pro	Gln	Gly	Leu	Glu	Leu	Phe	Glu	Asn	Thr	Ser	Ala	Pro	Tyr	Gln
		180						185					190		
Leu	Gln	195	Phe	Val	Leu	Pro	Ala	Thr	Pro	Pro	Gln	Leu	Val	Ser	Pro
		210				215					220				
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